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The Usage of ROOT in the DD4hep Detector Description Package

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DD4hep is a detector geometry package which can provide all auxiliary information necessary to process data from particle collisions in high energy physics such as geometry and readout information, but also interfaces to conditions and alignment data. DD4hep supports all data processing activities of an experiment: simulation, reconstruction and analysis.

The modeling of the geometry of a detector is entirely based on the ROOT geometry toolkit TGeo. DD4hep further extensively uses the ROOT core to allow persistent descriptions and the pyROOT interface to configure simulation processes with Geant4. Due to the increasing popularity we would like to provide our input concerning possible future improvements or development directions.

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